

In the Claims:

Claims

1. (Currently Amended) ~~A isopropanol~~ Isopropanol/water mixed solvate of olanzapine which contains 2 molecules of water and 1 molecule-of isopropanol per 2 molecules of olanzapine.
2. (Currently Amended) ~~The isopropanol~~ Isopropanol/water mixed solvate of olanzapine of claim 1 characterized by the x-ray structure shown in Figure 1.
3. (Currently Amended) ~~The isopropanol~~ Isopropanol /water mixed solvate of olanzapine of claim 1 characterized by a NMR spectrum in CDCl_3 showing peaks at approximately 1.20 ppm, 2.20-2.40 ppm and 4.03 ppm.
4. (Currently Amended) ~~The isopropanol~~ Isopropanol /water mixed-solvate of olanzapine of claim 1 characterized by the NMR spectrum shown in Figure 2.
5. (Currently Amended) ~~Process~~ A process for the preparation of the isopropanol/water mixed solvate of olanzapine according to ~~any one of claims 1 to 4~~ claim 1, which comprises crystallizing it from a solvent mixture comprising isopropanol and water in a ratio of at least 9 to 1 parts by volume.
6. (Currently Amended) ~~Process~~ The process according to claim 5, wherein the solvent mixture comprises isopropanol and water in a ratio of at least 20 to 1 parts by volume.

7. (Currently Amended) ~~Process~~ The process according to claim 5 ~~or 6~~, wherein the solvent mixture comprises isopropanol and water in a ratio of at least 35 to 1 parts by volume.
8. (Currently Amended) Process according to ~~any one of claims 5 to 7~~ claim 5, wherein the crystallization is effected by adding the water to a solution comprising olanzapine and the isopropanol.
9. (Currently Amended) ~~Process~~ The process for the preparation of form I olanzapine, wherein the isopropanol/water mixed solvate according to ~~any one of claims 1 to 4~~ claim 1 is used.
10. (Currently Amended) ~~Process~~ The process according to claim 9, wherein (a) the isopropanol/water mixed solvate is converted to a methylene chloride solvate of olanzapine, and (b) the methylene chloride solvate is converted to form I olanzapine.
11. (Currently Amended) ~~Process~~ The process according to claim 10, wherein in step (a) a solution of the isopropanol/water mixed solvate in methylene chloride is prepared, the solvent is partly evaporated and the remaining solution is cooled.
12. (Currently Amended) ~~Process~~ The process according to claim 10, wherein in step (a) a solution of the isopropanol/water mixed solvate in methylene chloride is prepared, a drying agent is added to the solution, the drying agent is removed from the mixture and the methylene chloride solvate of olanzapine is recovered.

13. (Currently Amended) ~~Process~~ The process according to claim 12, wherein anhydrous CaSO_4 is used as the drying agent.

14. (Currently Amended) ~~Process~~ The process according to ~~any one of claims 10 to 13~~ claim 10, wherein the methylene chloride solvate is methylene chloride hemisolvate of olanzapine.

15. (Currently Amended) ~~Process~~ The process according to ~~any one of claims 10 to 14~~ claim 10, wherein in step (b) the methylene chloride solvate is suspended in isopropanol.

16. (Currently Amended) ~~Process~~ The process according to claim 15, wherein the ratio between methylene chloride solvate (kg) and isopropanol (l) is 1: 5 to 1: 2.

17. (Currently Amended) ~~Process~~ The process according to ~~any one of claims 10 to 16~~ claim 14, wherein in step (b) methylene chloride hemisolvate is dried under vacuum at a temperature of 30 to 55 C for 6 to 36 hours, the dried hemisolvate is suspended in isopropanol, the suspension is stirred at a temperature of 15 to 35 C for 15 to 60 min, and the form I olanzapine is separated.

18. (Currently Amended) ~~Process~~ The process according to claim 9, wherein the solid isopropanol/water mixed solvate of olanzapine is mixed with solid olanzapine of form I and the particle size of the mixture is reduced.

19. (Currently Amended) ~~Process~~ The process according to claim 18, wherein the mixture comprises up to 10% and in particular up to 5% by weight of form I olanzapine.

20. (Currently Amended) ~~Process~~ The process according to claim 18 ~~or 19~~, wherein the mixture of reduced particle size is dried in a vacuum drier at temperatures ranging from room temperature to 80 C, ~~preferably from room temperature to 60 C and most preferred from 40 to 50 C.~~

21. (Currently Amended) ~~Process~~ The process according to claim 20, wherein the dried material is suspended in isopropanol, the solid is separated by filtration and dried.

22. (Currently Amended) ~~Process~~ The process according to claim 21, wherein the dried material is suspended in isopropanol in a weight (kg) to volume (l) ratio of 1: 5 to 1: 2, in particular 1: 3 to 1: 2.

23. (Currently Amended) ~~Process~~ The process for the preparation of ~~any other~~ solvate or hydrate forms of olanzapine, or mixtures thereof, wherein the isopropanol/water mixed solvate of olanzapine according to ~~any one of claims 1 to 4~~ claim 1 is used.

24. (Currently Amended) ~~Process~~ The process for the preparation of anhydrous forms of olanzapine, wherein the isopropanol/water mixed solvate of olanzapine according to ~~any one of claims 1 to 4~~ claim 1 is used.

25. (Currently Amended) ~~Use~~ The use of the isopropanol/water mixed solvate of olanzapine according to ~~any one of claims 1 to 4~~ claim 1 for the preparation of any other solvate or hydrate

forms of olanzapine, or mixtures thereof, or for the preparation of anhydrous forms of olanzapine.

26. (Currently Amended) ~~Process~~ A process for preparing form I olanzapine, wherein at least one of (a) a precursor for olanzapine form I and (b) olanzapine form I is crystallized or precipitated from a liquid medium which medium is present in a container wherein the surfaces of the container contacting the medium are comprising at least one polymer

27. (Currently Amended) ~~Process~~ The process according to claim 26, wherein a precursor for olanzapine from I is crystallized or precipitated.

28. (Currently Amended) ~~Process~~ The process according to claim 27, wherein the precursor is methylene chloride hemisolvate of olanzapine.

29. (Currently Amended) ~~Process~~ The process according to ~~any one of claims 26 to 28~~ claim 26, wherein the precursor or the olanzapine form I has been prepared using the isopropanol/water mixed solvate according to ~~any one of claims 1 to 4~~ claim 1.

30. (Currently Amended) ~~Process~~ according to ~~any one of claims 26 to 29~~ claim 26, wherein the surfaces of the container contacting the medium are consisting of at least one polymer.

31. (Currently Amended) ~~Process~~ The process according to ~~any one of claims 26 to 30~~ claim 26, wherein the polymer contains fluorine.

32. (Currently Amended) ~~Process~~ The process according to ~~any one of claims 26 to 31~~ claim 26, wherein the polymer is selected from polytetrafluoroethylene, fluorinated ethylene propylene copolymer, perfluor alkoxy polymer, or ethylene tetrafluoroethylene copolymer.